MA 103   KATIRAIE   QUIZ #3 Form A   SECTIONS (2.4, 3.1, 3.2)   FALL 2006

NAME _____   SCORE: _____/ 20

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1.   Find the slope - intercept form of a line parallel to
      $2y+3x=1$, passing through (- 4, 3)

2.   Find the slope - intercept form of a line perpendicular
      to $y=\dfrac{-1}{4}x+5$, passing through (- 3, -4)

3.　In 1998 Toyota sold 1.5 million vehicles. This number increased to 1.8 million in 2003.

a) Find a linear function that models the data.

b) Determine the year when Toyota sold 1.7 million vehicles by solving a linear equation.

c) Predict the year when Toyota may sell 2 million vehicles.

4.　The length of a rectangular room is 3 feet more than its width. If the perimeter of the room is 85 feet, find the width and length of the room.

5.　Solve the following equations:

a.　$\dfrac{3x}{3} - \dfrac{2x}{4} = \dfrac{1}{6}$

b.　$\dfrac{3x+1}{3} = \dfrac{2x-1}{3}$